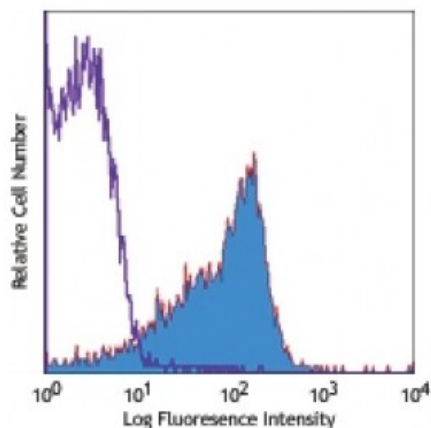


PE/Cy5 anti-mouse CD150 (SLAM)

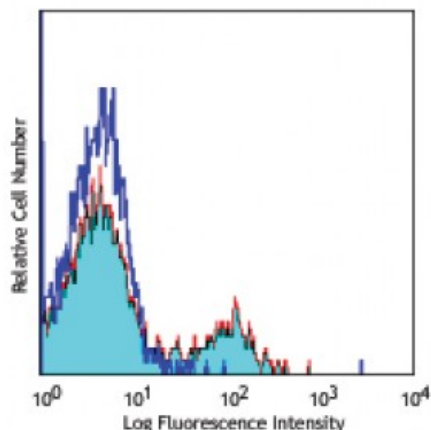
Catalog # / Size:	1179555 / 25 µg 1179560 / 100 µg
Clone:	TC15-12F12.2
Isotype:	Rat IgG2a, λ
Immunogen:	Mouse SLAM-human IgG1 fusion protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse splenocytes were stained with CD150 (clone TC15-12F12.2) PE/Cy5 (filled histogram) or rat IgG2a PE/Cy5 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	The TC15-12F12.2 antibody has been reported to enhance the production of IFN-γ by Th1 cells stimulated through TCR. Additional reported applications (for the relevant formats) include: immunoprecipitation ¹ , enhancing IFN-γ production by Th1 cells when stimulated with CD31, and inhibiting CD3 induced T cell proliferation ⁶ . The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 115906).



C57BL/6 mouse bone marrow cells were stained with CD150 (clone TC15-12F12.2) PE/Cy5 (filled histogram) or rat IgG2a PE/Cy5 isotype control (open histogram) (gated on lymphoid cell population).

Application References:	<ol style="list-style-type: none"> 1. Castro AG, <i>et al.</i> 1999. <i>J. Immunol.</i> 163:5860. (FC, Costim, IP) 2. Forsberg EC, <i>et al.</i> 2005. <i>PLoS Genet.</i> 1:e28. (FC) 3. Terrazas LI, <i>et al.</i> 2005. <i>Int. J. Parasitol.</i> 35:1349. (FC) 4. Cannons JL, <i>et al.</i> 2006. <i>J. Exp. Med.</i> 203:1551. (FC) 5. Umemoto T, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:7733. (FC) 6. Jordan MA, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:1618. (FC, Block) PubMed 7. Jung Y, <i>et al.</i> 2007. <i>Blood</i> 110:82. PubMed 8. Pimanda JE, <i>et al.</i> 2007. <i>Proc. Natl. Acad. Sci. USA</i> 104:840. 9. Sugiyama T, <i>et al.</i> 2007. <i>Proc. Natl. Acad. Sci. USA</i> 104:175.
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Description: CD150 is a 75-95 kD member of the immunoglobulin superfamily, also known as SLAM (signaling lymphocyte activation molecule) or IPO-3. CD150, a single chain type I transmembrane molecule, is expressed on thymocytes, T cell subsets, B cells, dendritic cells, and endothelial cells. The expression is upregulated upon activation. CD150 expression has been shown to be maintained on Th1 but not Th2 clones. T regulatory cells express a relatively high level of CD150. Antibodies against CD150 have been shown to augment IFN- γ production by Th1 cells, especially when co-stimulated through the TCR. CD150 associates with the src homology 2-domain-containing protein tyrosine phosphatase SHP-2, and this association is thought to be involved in signal transduction. In combination with CD48, CD150 is a useful marker for hematopoietic stem cell studies.

Antigen
References:

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